

Claims

- [c1] 1. A data cartridge library comprising:
- a frame;
 - a shelf system, operatively attached to said frame, for supporting at least two data cartridge magazines and comprising at least one shelf;
 - drive means that is operatively attached to said frame;
 - a magazine transport device, operatively attached to said frame, for moving a data cartridge magazine;
 - a cartridge transport device, operatively attached to said frame, for moving a data cartridge between a data cartridge magazine and said drive; and
 - a power supply, operatively attached to said frame, for receiving AC power from an external environment and producing DC power in a form suitable for use by said drive means; and
 - a conductor, operatively attached to said frame, for conveying DC power from said power supply to said drive;
- wherein said conductor has a first flat external surface and a second flat external surface that is substantially parallel to said first flat external surface.
- [c2] 2. A data cartridge library, as claimed in claim 1, wherein said frame comprises:
- a cabinet having a first side, second side, third side and fourth

side;

wherein said first side is substantially parallel to said second side;

wherein said third side is substantially parallel to said fourth side; and

wherein said first side is substantially perpendicular to said third side.

[c3] 3. A data cartridge library, as claimed in claim 2, wherein:
said conductor is located so that said first flat external face is substantially parallel to one of said first side and third side.

[c4] 4. A data cartridge library, as claimed in claim 2, wherein:
said conductor is located so that said first flat external face is substantially perpendicular to said first side.

[c5] 5. A data cartridge library, as claimed in claim 1, wherein:
said drive means comprises a drive with a substantially flat outer surface; and
said conductor is located so that said first flat external face of said conductor is substantially parallel to said substantially flat outer surface of said drive.

[c6] 6. A data cartridge library, as claimed in claim 5, wherein:
said substantially flat outer surface of said drive is a horizontally extending surface.

[c7] 7. A data cartridge library, as claimed in claim 5, wherein:

said substantially flat outer surface of said drive is a vertically extending surface.

- [c8] 8. A data cartridge library, as claimed in claim 1, wherein:
said magazine transport device comprises a portion that,
during operation, rotates about an axis.
- [c9] 9. A data cartridge library, as claimed in claim 8, wherein:
said conductor is located so that said first flat external face lies
in a radial plane that includes said axis.
- [c10] 10. A data cartridge library, as claimed in claim 8, wherein:
said conductor is located so that said first flat external face lies
in a plane that is substantially parallel to a radial plane that
includes said axis.
- [c11] 11. A data cartridge library, as claimed in claim 8, wherein:
said conductor is located so that said first flat external face lies
in a plane that is substantially perpendicular to a tangent of a
circular arc having said axis as a center.
- [c12] 12. A data cartridge library, as claimed in claim 1, wherein:
said magazine transport device comprises a portion that,
during operation, moves in two orthogonal and rectilinear
directions that define a plane.
- [c13] 13. A data cartridge library, as claimed in claim 12, wherein:
said conductor is located so that said first flat external face is

substantially parallel to said plane.

[c14] 14. A data cartridge library, as claimed in claim 12, wherein:
said conductor is located so that said first flat external face is
substantially perpendicular to said plane.

[c15] 15. A data cartridge library, as claimed in claim 1, wherein:
said conductor comprising a plurality of laminated electrical
conductors.

[c16] 16. A data cartridge library, as claimed in claim 1, further
comprising:
a tap that is electrically connected to said conductor and
located between said conductor and said drive means.

[c17] 17. A data cartridge library, as claimed in claim 1, further
comprising:
a plug comprising a first plug portion and a second plug
portion that mates with said first plug portion;
wherein said first plug portion is electrically connected to said
conductor; and
wherein said second plug portion is electrically connected to
said drive means.

[c18] 18. A data cartridge library, as claimed in claim 1, wherein:
said drive means comprises a drive bay for housing at least
two drives.

- [c19] 19. A data cartridge library, as claimed in claim 1, wherein:
said drive means comprises a plurality of drives that are
situated in a vertical column.
- [c20] 20. A data cartridge library, as claimed in claim 1, wherein:
said power supply comprising a substantially horizontal top
surface; and
wherein at least a portion of said conductor is located above
said horizontal top surface and with at least a portion of said
first flat external face substantially parallel to said horizontal
top surface.